

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116907		APPLICATION NO. 10/645,776	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Joji KARASAWA et al.			
				FILING DATE August 22, 2003		GROUP Unknown	

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JAN 02 2004
PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
MSK	5,513,036	4/1996	Watanabe et al.	359	457	
MSK	4,076,384	2/1978	Deml et al.	350	122	
MSK	5,615,045	3/1997	Takuma et al.	359	456	
MSK	US 2002/0080483 A1	6/2002	Yamaguchi et al.	359	456	
MSK	5,074,644	12/1991	Hirai et al.	359	455	

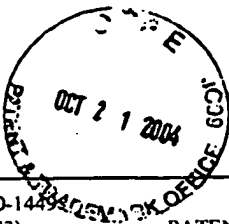
FOREIGN PATENT DOCUMENTS						
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		
EP 1 154 317 A2	11/2001	EPO	603B	21/56		
WO 00/60412	10/2000	WIPO	603B	21/62		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	

EXAMINER	DATE CONSIDERED 12/20/04
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: January 2, 2004



Sheet 1 of 1

Form PTO-1449a (REV. 8-83) US Dept. of Commerce
PATENT & TRADEMARK OFFICEATTY DOCKET NO.
116907APPLICATION NO.
10/645,776

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS
Joji KARASAWA et al.FILING DATE
August 22, 2003GROUP
2851

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
MJK	JP A 2002-107829 w/Abstract and Translation	4/10/2002	Japan	603B	21/62

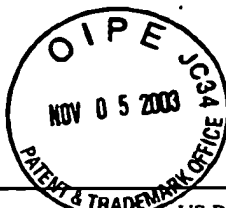
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

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Date: October 21, 2004

Sheet 1 of 1

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116907		APPLICATION NO. 10/645,776	
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				FILING DATE August 22, 2003		GROUP Unknown	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
MSK		2000-131506 w/Abstract and Translation	5/12/2000	Japan	602B	3/00	
OTHER DOCUMENTS (Including Author, Title, Dae, Pertinent Pages, etc.)							
EXAMINER				DATE CONSIDERED			
				12/20/04			
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Date: November 5, 2003